

FIG. 1

FIG. 3D

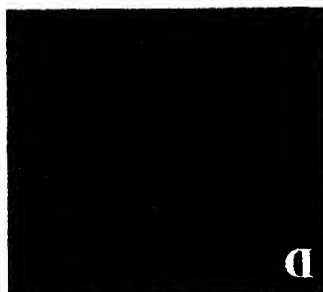


FIG. 3E



FIG. 3F

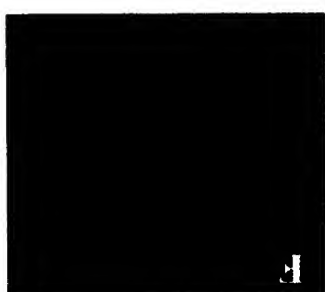


FIG. 3A



FIG. 3B



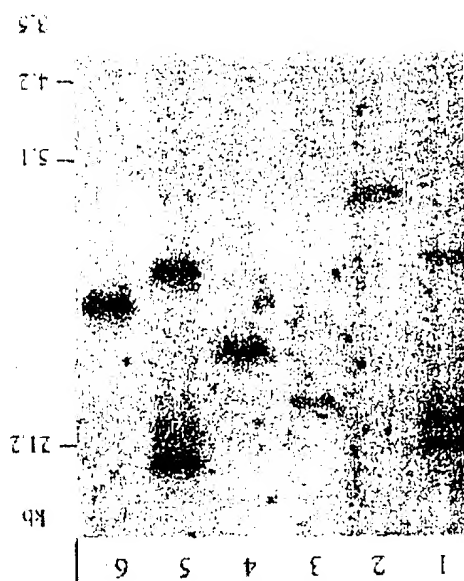
FIG. 3C



FIG. 2A



FIG. 2B



A. AmpPV

B. Plasmid

FIG. 5

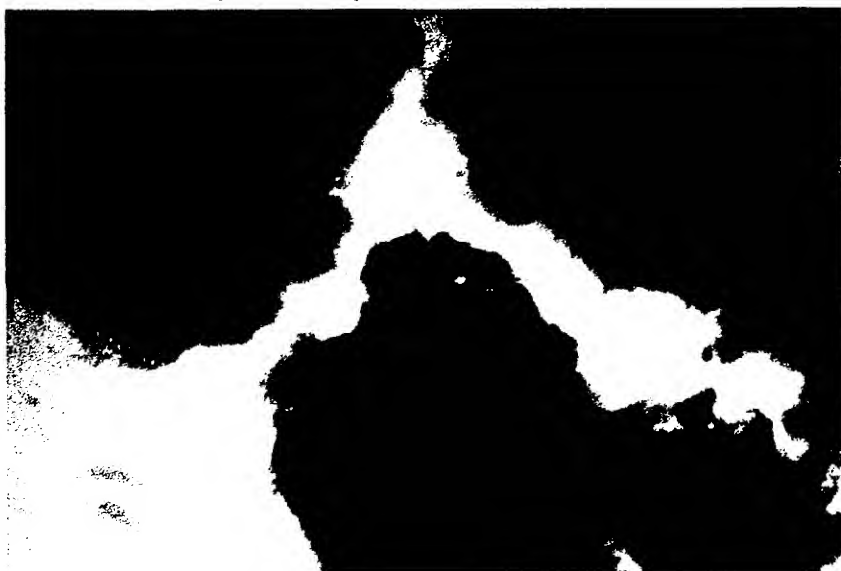


FIG. 4C

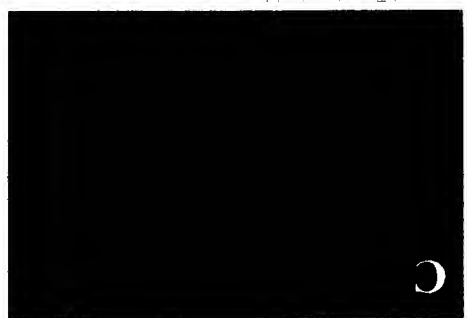


FIG. 4D



FIG. 4A

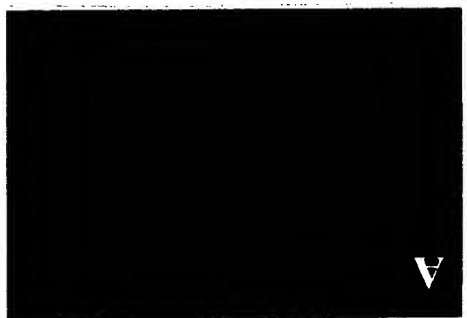


FIG. 4B



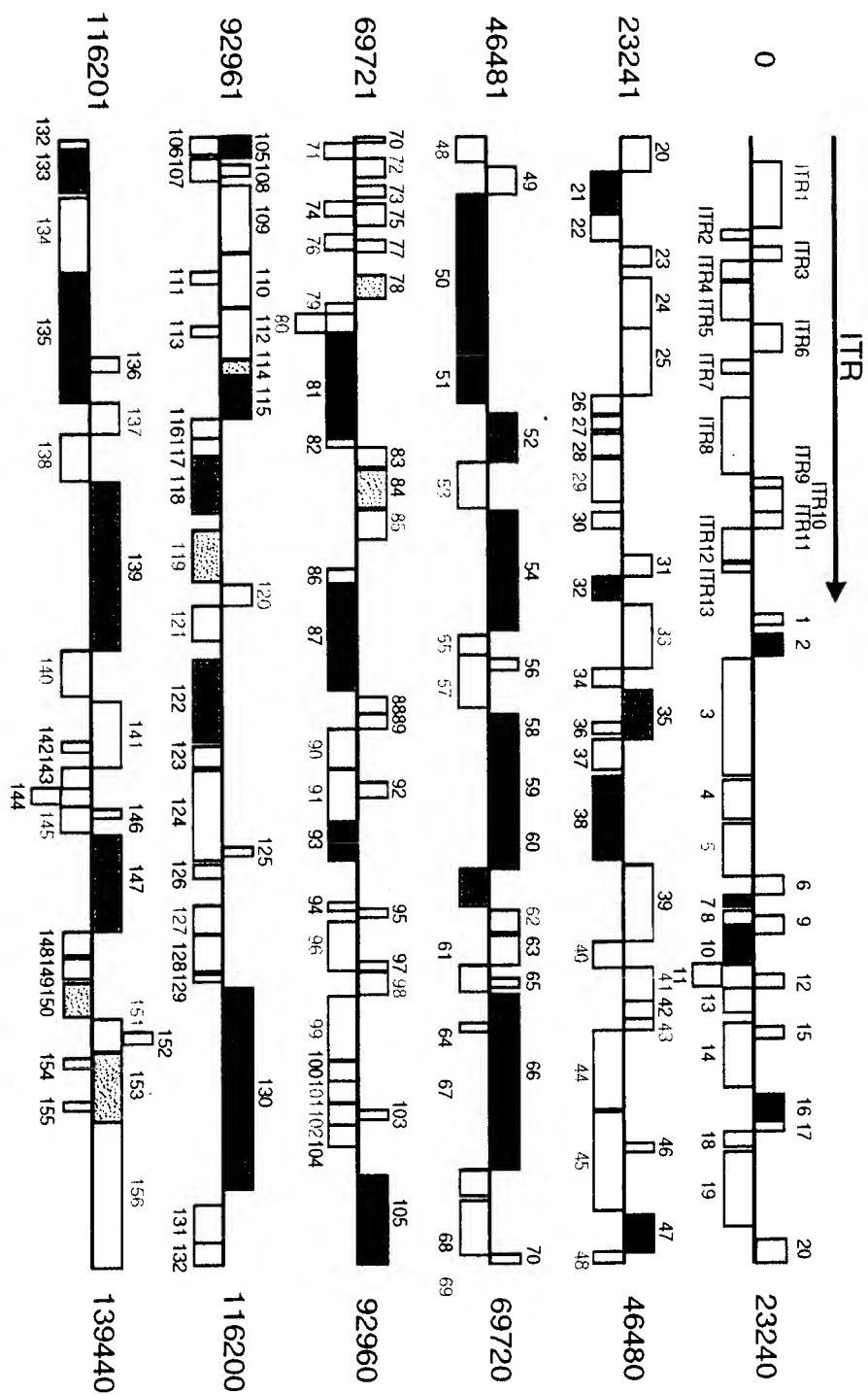
FIG. 6A and FIG. 6B are schematic diagrams of a system for controlling a vehicle. FIG. 6A shows a vehicle 600 with a driver 602 and a control system 604. FIG. 6B shows a control system 604 with a processor 606 and a memory 608.

FIG. 6B



FIG. 6A





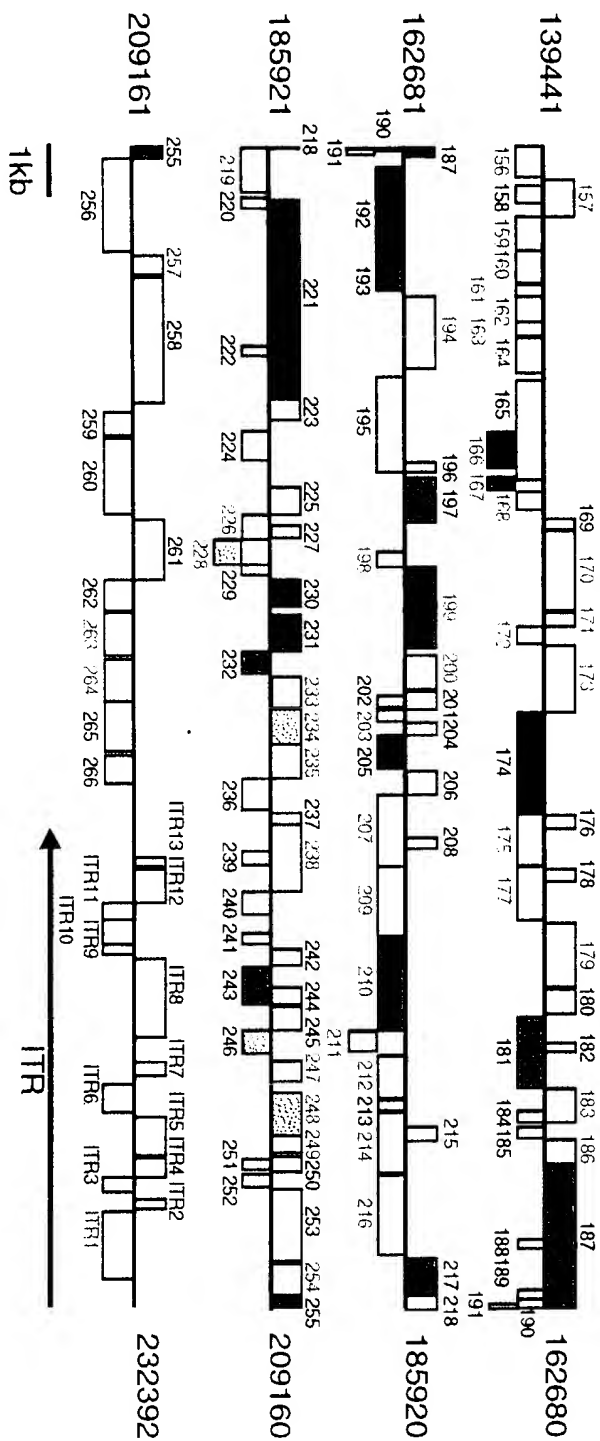


FIG. 8A



FIG. 8B



FIG. 8C



FIG. 8D



ITR

ITR

FIG. 9A

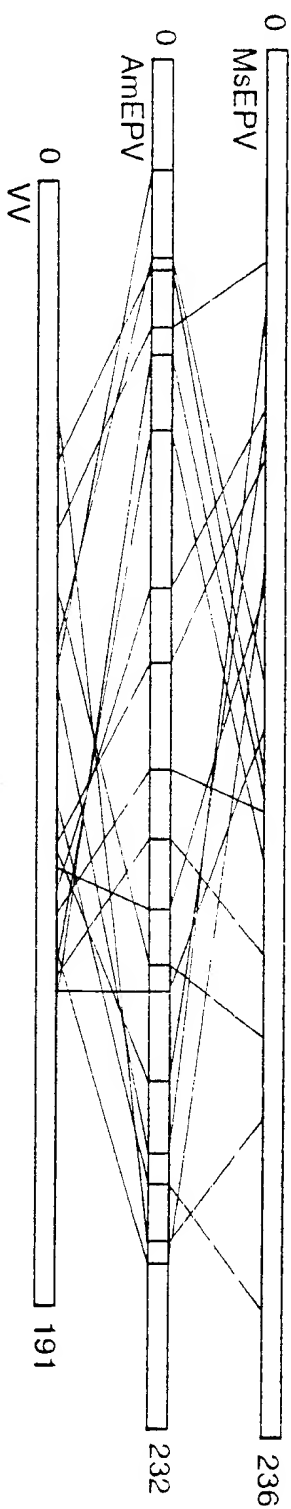
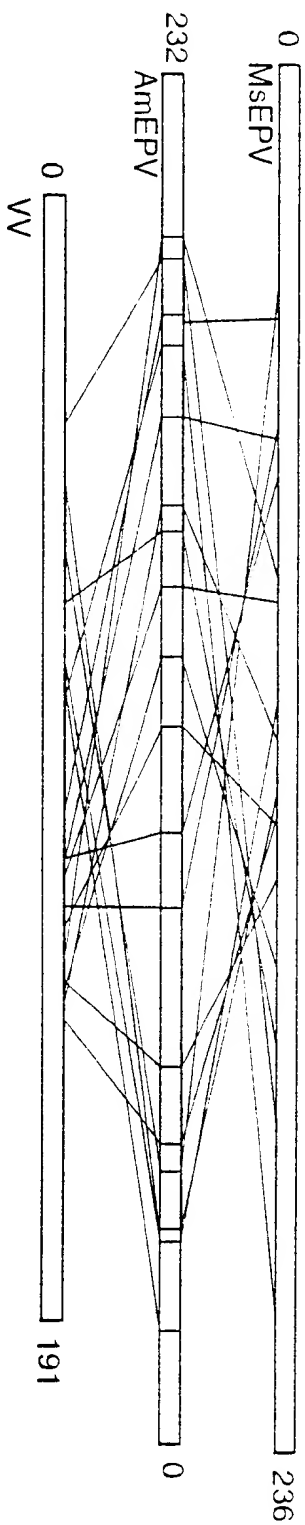


FIG. 9B



	1	50	100														
HAEPV	MSF	NRERY	KNTTKP	YAF	NRKPGQIKL	LINERFTE	DVEIYKKNY	NKTNILYIG	SGKGYHPL	MEIYSKY	N						
AMV060	MNF	MPQVYISD	I	RMLEY	DEHFPGKE	IMHEPLTE	DVEIHKRY	HEHTVLYIG	SGKGYHPL	THMYSKY	K						
MSV041	MSIYKINDE	KKPNLEIN	I	NRQIKY	NRKNVS	N	KHPGQIKL	IMTEIQEEN	CHIDALNSK	DREIVLYIG	SGRGYHPL	IKL					
AMV115	MDVNYIY	NKPLVITYD	I	CRNMNDY	DYNNITREY	.....	MDI	ILSQIQELSH	INIKRICNT	NGIVNLYIG	SSKAYHENIL	IKL				
VWJ3R	MIIVSL	DKP	FMFE	I	DNELDY	EPESANEVAK	KLPYQIQIKL	ILGELFPUK	LQRHGILDG	.....	ATVNVYIG	SAPGTHIRYL	IKL			
Consensus	P	N	Y					F	F	YIG	S	H	L				
Insect Cons	P	N	Y					F	F	YIG	S	YH	L				
AmEPV Cons	P	Y	D	N	N	KK		L	I	EL	N	N	LYIG	S	K	YH	L

	101	150	200								
HaEPV	IIMHLYDPNG	HCCKNEISN	KMHVNIYNQ	IECKEVELY	EDVONLLES	DIRTIDDEK	EPNTKNIJHD	YDIQNYVLKE	LKPI	ALIKQ	RDEPFNDWDE
AMV060	IOMDLYDPG	HECKLYNIQK	NIHNIKLYDT	YEHKSDVECY	ENIDHLEJIT	DIRTIVDEJD	EPTKNIJND	YELQNYLKE	LKPI	SLVKQ	RDEPFNDWDE
MSV041	IKWVEYDPSG	HCISLERSMQ	YVSINND	YETERKINEE	KIKKPLETIS	DIRSTQGS..	EYRTKNIJHD	YKIQNNIVLN	LRLYSLIKE	RYEPEJDEP	
AMV115	IKWVEYDID	HCISVERLS.	..YHLEENK	LETEDDITDE	KIKKPLYTIS	DY.....PD	KSNVRDLYH	YMNQNNITY	LLETYSILKE	KYMEIKRWNI	
VVJ3R	IKWMLTDGRH	PCILHETLRD	WTLVTEFVDE	ETLRS..IKKQ	LHESKILIS	DVKSKRQGN.	EFTSTADLSN	YALQNVMSI	LNEVASSILKE	KCEPFIDQWK	
Consensus	I-W---D---	---	---	---	---	D---	---	Y-QN---	L-P---	-K-	
Insect Cons	I-W---YD---	-C---	---	-F---	-L---I-	D---	---	Y-QN---	L-P---	-L-K-	
AMEPV Cons	IQW--YD---	-C---	NI---	-F--D---	-L---I-	D--DD	-N--L---	Y-QN-I--	L-P--SL-K-	----	N-W--

	201	250	300							
HaEPV	SYEMI . PD.	GREYVQCFQK	HDSAEYRIE .	VCGATITETKV	NLDVLKTRNI	DKLIAMYNRK	YRFEDNFNDY .	RIAYRVILNK	YLKTENLPFL	KYTDINKRN
AMV060	SYKLSI . PD.	GREYIQCFQK	YNSAEYRIE .	ISGITFEVDI	RSVILLNRGKI	DRKILAWYNRK	YRFQNDNDY .	KIAYRIILNK	YLKSENKPLI .	KRYINDINKN
MSV041	ETENEYVNDY	GTRFLQPFQK	POSTMRRIE .	VSFQNIILK .	NFSKEKSLIF	EKKMYVYHNK	YRIINKNRI .	LIAGTILNK	TNKFENK .	KRYINDIKSL
AMV115	SEMDYEYIST	GIRYLPFL . .	KSLILTRNI .	LDNKILMT . I	YFEDLSESNY	YEKMYNYN .	NCSGYNDIY	NNISGAILNK	SNLYDNN . .	SAY . NIKIY
VVJ3R	DE . . . YIPH	GKMKIQEFAP	SYSLAMPLIS	LYTGLAMPILY	KVLTISDVVNY	EKKMYTILNKI	VR . . . NRV .	. . . VVNF	DYPNQEYDYE	HYEMLRVY
Consensus	---	G---	S---R---	---	---	K---N---	---	---	---	Y---
Insect Cons	---	G---	S---R---	---	---	K---YN---	ND---	I---	L---	Y---I---K---
AmEPV Cons	S---	G-Y---	S---R---	I---	---	K---YN---	ND---	I---	ILNK---	Y-NI-K---

	301	350	362
HaePV	IKSVIKSISK	TINDN	
AMV060	IKNVIRSLSK	EMGYX	
MSV041	ENSINNOIRE	DISFNKLDIK	
AMV115	EKNINTINE	DKIERSKEKY I	
VVJ3R	CNKTEPTKA	KVLFLQÖSIF	RELNIPTTST EKVSHEPIQR KISSKNMSK NRNSKRSGVG NK
Consensus	-----	-----	
Insect Cons	-----	-----	
AmePV Cons	-K--I-----	-----	

FIG. 10

1 MNYYITLCTF MLESSSYNEK LNNNNICNEE YDPGICRIGD
41 IRWYNNYNIK DCKIFLYGC GGNMNNFNYY EDCINCKLI

FIG. 12

